

TECHNOLOGY	DESCRIPTION	TYPICAL APPLICATIONS
Chemical Foaming Agents	Introduces uniform microcellular structure—delivers lighter weight, improves thermal and acoustic insulation, and cost efficiency without compromising structural integrity.	Lightweight insulation; Decking; trim and railing; Vinyl siding and profiles; Window and door profiles; Flooring underlayment; Pipes and tubing; Cable jacketing; Structural/sandwich panels; Gaskets and weatherstripping
Flame Retardant Additives	Designed to delay ignition, limit fire growth, and reduce smoke and heat, supporting safer buildings and compliance with fire codes.	Wire & cable insulation/jackets; Thermal insulation; Pipes and conduit (PVC, PE, PP); Wall panels/ interior partitions; Ceiling tiles/decorative; Flooring systems, Cladding and siding; Roofing membranes; Sealants, coatings, and adhesives; Doors, windows, and profiles; Electrical housings/junction; Modular and prefabricated
Outdoor Durability Additives	Formulations to extend the service by guarding against sun exposure and oxidative damage—preserving color, strength, and durability in harsh outdoor conditions.	Plastic Decking; Railing and fencing systems; Siding, cladding, and façade; Roofing membranes, Window and door profiles; Outdoor furniture and fixtures; Playground and recreational; Electrical enclosures/cables; Pipes and conduit; Signage and outdoor displays; Trim, molding, architectural; Geomembranes and liners
Scratch & Mar Resistance Additives	For applications requiring resistance to daily surface abrasion, and management of surface energy	Vinyl siding and cladding; Window and door profiles; Decking and railing systems; Flooring; Wall panels and decorative; Furniture and fixtures; Appliances housings
Polymer Decking Solutions	Colorants and additive packages enable decking products to retain rich, consistent color and withstand outdoor exposure—combining visual appeal with resistance to sun, moisture, and everyday use for extended service life.	Solid and capped deck boards; Railing systems; Fascia boards and trim; Stair treads and risers; Docking and marine decking; Porch flooring systems; Outdoor platform/walkway; Landscape edging and garden; Pergolas and outdoor shade; Boardwalks and public flooring
Anti-static & Conductive Additives	Improve polymer-based construction products by minimizing static buildup and enabling controlled conductivity—supporting safety, cleanliness, and reliable performance in demanding applications.	ESD-safe flooring; Cables and wire insulation; Electronic/electrical housing; Data center components; Cleanroom wall panels; Pipes and ducts; Storage tanks and containers;Conveyor material handling; Roofing membranes; Coatings and surface layers; Benches, and protective panels; Packaging/storage bins
Antimicrobial Additives	Antimicrobial technology to limit microbe growth— reduces bacterial, mold and fungal growth on surface and through thickness, protecting finished part	Flooring; Wall panels and partitions; HVAC components; Pipes and plumbing fixtures; Sealants, coatings, and grouts; Window and door profiles; Roofing membranes; Insulation facings and films; Cable jacketing/electrical; Storage tanks/water systems; Countertops and solid surfaces; High-touch surfaces; Bath surrounds, liners & inserts
Polymer Processing Additives	Enhance products by optimizing melt flow, reducing defects, and improving surface finish—delivering better productivity and high-quality, consistent end-use performance.	Extrusion and injection molding process technician support for problem solving, improve throughput, manage part thermals, and optimize process for less scrap and energy consumption
Laser Marking Additives	Allow materials to be cleanly and permanently marked with sharp, high-contrast codes or logos—enhancing traceability, aesthetics, and lifecycle durability without secondary processing steps.	Wire & cable identification;Pipes and tubing; Window and door profiles; Flooring materials; Wall panels/cladding systems; EEE housings, connectors, box; Cable management systems; Roofing membranes; Insulation boards; Decking boards and railing; Construction films and sheets; Labels, QR codes, barcodes
Anti-counterfeiting Additives	Allow materials to be cleanly and permanently marked with sharp, high-contrast codes or logos—enhancing traceability, aesthetics, and lifecycle durability without secondary processing steps. Embedding unique, traceable identifiers—protecting brand integrity, ensuring product authenticity, and reducing the risk of fraud in the supply chain.	Wire & cable jacketing; Pipes & fittings; Telecommunications; Potable water equipment

While this listing represents many Avient solutions and addresses common applications, we can tackle many other building & construction needs. Bring us your challenges and let our material experts help you find the solution that will transform your vision into reality.

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Sustainable Colorants & Additives	Sensible lower carbon footprint and sustainability goal minded—while delivering long-lasting color, performance, and compatibility with circular material streams.	Eco-Friendly; Renewable/Recyclate; Product Declarations; OSHA compliance; LEED material credits
Special Effects Colorants	Granite, streaking, marbling, woodgrain and other distinctive colorant technologies to provide special surface effects	Decorative molding; Chair or handrails; Wallcovering; Blinds & shutters; Decking products; Flooring systems; Paneling and Partitions; Edge wraps;
Cementitious Colorants	Products to achieve rich, lasting color while optimizing processing, durability, and finish quality—supporting both aesthetics, harsh exposed environments, and long-term performance.	In-ground swimming pools; Pool decks & coping; Architectural concrete; Cast-in-place concrete; Stucco and exterior plaster; Mortars & grouts; Pavers and concrete blocks; Roofing tiles/ shingles; Decorative concrete; Fiber cement boards and siding
Metallic Flooring & Stain Colorants	Transforming concrete and flooring surfaces with rich, dimensional aesthetics and long-lasting color—delivering premium visual appeal with durable, easy-to-maintain performance.	Decorative concrete flooring; Epoxy flooring systems; Polished concrete surfaces; Retail and commercial floors; Hospitality/ Showroom flooring; Residential garage/basement; Walkways, and outdoor living; Concrete countertops; Wall accents/panels; Sealers and coatings; Stained effects

Avient is a premier provider of specialized and sustainable material solutions and services that transform customer challenges into opportunities. Our range of world-class services includes:

Color Technology: Custom color design, saturated colors, and special effects to fill market niches and eliminate secondary operations

Color & Design Services: Trend and color insights, and product development assistance to optimize design and gain speed to market

Regulatory Coordination: Aid with new product approvals to reduce regulatory overhead and minimize risk

Field Technical Service: Support for tool design, startup and production optimization to gain manufacturing efficiencies

Sustainability: Innovative materials and solutions to help you meet your sustainability goals

To learn more visit www.avient.com or call 1.844.4AVIENT (1.844.428.4368)

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The building and construction industry is dynamic, with trends towards high-performance buildings, elegant outdoor areas, healthier living spaces, and eco-friendly environments. You need technologies that can help you capitalize on these trends and deal with market changes. At Avient, we have solutions that will do just that.

From performance additives that focus on extending product life to special effect

colorants that create stunning results, we have technologies that can help you address your challenges. Our vast portfolio delivers product performance and processing efficiencies that will help you gain market advantages and grow your bottom line. And, robust technical support from product design through production provides even greater benefits throughout your process.



DESIGN & PROCESSING

Performance Expectation: Material versatility and processing optimization that enable precision engineering, customization, and manufacturing efficiency across extrusion and molding platforms

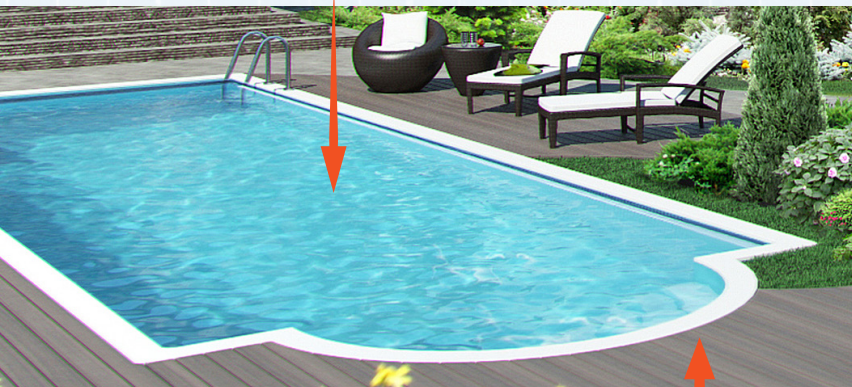
SOLUTION: Advanced polymer science, tailored application development, and hands-on technical service support



LANDSCAPE HARMONY

Performance Expectation: Cohesive exterior aesthetics that seamlessly integrate indoor-outdoor living spaces, hardscapes, and architectural surfaces

SOLUTION: Cementitious metallic and stain colorants, epoxy and dispersion colorants for concrete, patios, stucco, and flooring applications



SURFACE FINISH

Performance Expectation: Low-maintenance exterior surfaces that deliver authentic, natural aesthetics without sacrificing durability

SOLUTION: High-performance colorants and functional additives engineered for plastic decking and cladding applications



VISUAL AESTHETICS

Performance Expectation: Differentiated, design-forward finishes — from custom deep shades to high-impact special effects — that elevate product appeal and brand identity

SOLUTION: Outdoor-durable Smartbatch colorant and additive combinations delivering metallic, granite, and wood grain effects



PROTECTION

Performance Expectation: Reliable performance in demanding applications — potable water systems, electrical infrastructure, piping, insulation, and fire-rated assemblies

SOLUTION: UL 94-compliant colorants, electrical and thermal management additives, antimicrobial agents for hygienic surfaces meeting standard



DURABILITY

Wind & impact resistance, chemical resistance, weatherability

SOLUTION: Scratch & mar resistant or IR/UV resistant additives, dimensional stabilizers



SUSTAINABILITY

Performance Expectation: Eco-conscious material solutions that support LEED credits, healthy building standards, reduced energy consumption, and lightweighting goals

SOLUTION: Recycled-content materials, chemical foaming agents for weight reduction, bio-derived colorants and additives



LONGEVITY

Performance Expectation: Extended service life through superior UV, chemical, impact, and biological resistance — supporting long-term warranty commitments

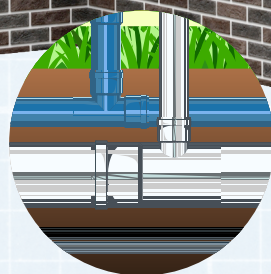
SOLUTION: Weatherable colorant systems, high-performance impact modifiers, antimicrobial additives for mold and mildew resistance



SAFETY

Performance Expectation: Building code compliance, fire prevention, and electrical hazard mitigation to protect occupants and assets

SOLUTION: Flame retardant additives, ESD/RFI-shielding thermal and electrical additives, laser-markable traceability additives



POWER AND DATA TRANSMISSION

Performance Expectation: Specialized material solutions that improve the performance, reliability, and longevity of wire, cable, and component systems.

SOLUTION: Dielectric, signal attenuation, EMI/RFI shielding, thermal and UV resistance, and lightweight solutions for high-speed electrical, telecom, and power grid applications.

DISTRIBUTION

Performance Expectation: NSF- and UL-compliant polymer colorants and functional additives that enhance piping performance, longevity, and identification.

SOLUTION: UV stability, impact resistance, thermal performance, processing efficiency, and color-coding solutions for compliant potable, DWV, industrial, and pipeline applications.